

13. (Amended) A micromixer array for mixing one or more reactants comprising two or more stacked micromixers as claimed in Claim 1.
14. (Amended) A micromixer array as claimed in Claim 13, wherein the micromixers are fluidically connected in parallel.
15. (Amended) A micromixer array as claimed in Claim 13, wherein the micromixers are fluidically connected in serial.
16. (Amended) A micromixer array as claimed in Claim 15, wherein the micromixers for mixing three or more reactants are connected in serial, whereby the first micromixer is designed for mixing two reactants to produce a product, and at least one downstream micromixer is designed to mix the third reactant with the intermediate product.
17. (Amended) A micromixer array as claimed in Claim 13, wherein there are one or more additional plates above, below and/or between adjoining micromixers to supply reactant, collect and/or distribute intermediate products and/or to discharge the product.

IN THE ABSTRACT:

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ABSTRACT

Known static micromixers that work according to the principle of multilamination allow for a rapid mixing by diffusion. The invention provides a

means for substantially increasing the throughput of known micromixers. To this end, the inventive micromixer for mixing two or more reactants comprises microstructures that define mixer cells. Each of said mixer cells is provided with a feeding chamber which adjoins at least two groups of digital channels. Said channels intermesh with the digital channels of the groups adjoining the feeding channels in a comb-like manner, thereby producing mixing zones]. Outlet ports are located above said mixing zones, said outlet ports extending perpendicularly to the digital channels and discharging the product. The inventive micromixer is especially useful for the large-scale production of mixtures, dispersions and emulsions.

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